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WO 2004/082463 A3

(54) Title: FOLATE RECEPTOR GENE MODULATION FOR CANCER DIAGNOSIS AND THERAPY

(57) Abstract: A method of diagnosing and treating a patient with or suspected of having at least one solid tumor that produces folate receptor type α includes administering a biologically effective amount of at least one folate receptor α inducer, specifically steroid receptor ligands, with or without aid from at least one histone deacetylase inhibitor, to increase the level of the folate receptor α on the plasma membrane of cancer cells as well as the folate receptor α in at least one type of body fluid, including, for example, serum, ascites and cerebrospinal fluid.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08129

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 9/99, 9/14; A61K 31/19
US CL : 435/184, 195, 197; 530/387.9; 514/557

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/184, 195, 197; 530/387.9; 514/557

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TROPE et al. Tamoxifen in the treatment of recurrent ovarian carcinoma. European Journal of Cancer. 2000, Vol. 36, pages S59-S67, especially page S59.	1, 6-9, 14, 17, 18, 24, 25, 28, 34, 35, 38, 44, 45, 48, 54, 55 and 58
Y	US 6,387,673 B1 (EVANS et al) 14 May 2002 (14.05.2002), column 3, line 53- column 4, line 28, column 5, lines 26-45, and column 15 - column 16.	1, 6-9 and 12-63

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

24 June 2005 (24.06.2005)

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/08129

Continuation of B. FIELDS SEARCHED Item 3:
Medline, Embase, Biosis, Caplus, US Patents Database in EAST
search terms: tamoxifen, ovary, ovarian, folate receptor, induction, dexamethasone, trichostatin

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08129

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: 10 and 11 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.